CIVIL QUALITY CONSULTANTS & ENGINEERS

ISO 9001:2015 Certified & NABL Accredited Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/SS/17/2021-2022 Date:06.10.2021

TEST REPORT ON CEMENT

Client : **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.

Agency : **Sri.Shivashankar (Shree Chamundeshwari Enterprises),** Contractor, Bangalore.

Name of Work : Improvements of UGD(Under Ground Drainage) Lines in J P Park in Ward NO.17, BBMP, Bangalore

Sample : : Cement (Zuari 53 grade OPC)

Sample Supplied by: : AGENCY

Date of Manufacture: : September-2021

Date of Testing 04.10.2021 to 06.10.2021

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	370 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.50%	-

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Job No.: CQCE/BBMP/SS/17/2021-2022 Date 06.10.2021

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency : **Sri.Shivashankar (Shree Chamundeshwari Enterprises),** Contractor, Bangalore.
Name of Work : Improvements of UGD(Under Ground Drainage) Lines in J P Park in Ward NO.17, BBMP, Bangalore

Date of Testing 06.10.2021
IS Code :IS 383:2016
:IS 2386 (Part 1):1963(RA 2011)
Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016 Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	80	8.00	8.00	92.0	90-100
2.36	124	12.40	20.40	79.6	75-100
1.18	163	16.30	36.70	63.3	55-90
600 Micron	247	24.70	61.40	38.6	35-59
300 Micron	158	15.80	77.20	22.8	8-30
150 Micron	150	15.00	92.20	7.8	0-10

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/SS/17/2021-2022 Date 06.10.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency : **Sri.Shivashankar (Shree Chamundeshwari Enterprises),** Contractor, Bangalore.
Name of Work : Improvements of UGD(Under Ground Drainage) Lines in J P Park in Ward NO.17, BBMP, Bangalore
Date of Testing 06.10.2021
IS Code :IS 383:2016
:IS 2386 (Part 1):1963(RA 2011)
Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
80	0	0	0	100	100
40	196	1.31	1.31	98.69	95-100
20	8532	56.88	58.19	41.81	30-70
10	3214	21.43	79.61	20.39	10-35
4.75	2563	17.09	96.70	3.30	0-5

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/SS/17/2021-2022 Date 06.10.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.

Agency : **Sri.Shivashankar (Shree Chamundeshwari Enterprises),** Contractor, Bangalore.

Name of Work : Improvements of UGD(Under Ground Drainage) Lines in J P Park in Ward NO.17, BBMP, Bangalore

Date of Testing 06.10.2021

IS Code :IS 383:2016

:IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
40	0	0	0	100	100
20	182	3.6	3.6	96.4	95-100
10	2525	50.5	54.1	45.9	25-55
4.75	2234	44.7	98.8	1.2	0-10

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Job No.: CQCE/BBMP/SS/17/2021-2022 Date 06.10.2021

TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

Client : **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.

Agency : **Sri.Shivashankar (Shree Chamundeshwari Enterprises),** Contractor, Bangalore.

Name of Work : Improvements of UGD(Under Ground Drainage) Lines in J P Park in Ward NO.17, BBMP, Bangalore

Date of Testing 06.10.2021

Material : Plastering Sand Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	20	2.00	2.00	98.0	95-100
2.36	28	2.80	4.80	95.2	95-100
1.18	34	3.40	8.20	91.8	90-100
600 Micron	76	7.60	15.80	84.2	80-100
300 Micron	258	25.80	41.60	58.4	20-65
150 Micron	532	53.20	94.80	5.2	0-15

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Job No.: CQCE/BBMP/SS/17/2021-2022 Date 06.10.2021

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency : **Sri.Shivashankar (Shree Chamundeshwari Enterprises),** Contractor, Bangalore.
Name of Work : Improvements of UGD(Under Ground Drainage) Lines in J P Park in Ward NO.17, BBMP, Bangalore
Date of Testing 06.10.2021
Material : Masonry Sand Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	16	1.60	1.60	98.4	90-100
1.18	33	3.30	4.90	95.1	70-100
600 Micron	88	8.80	13.70	86.3	40-100
300 Micron	243	24.30	38.00	62.0	5-70
150 Micron	511	51.10	89.10	10.9	0-15

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/SS/17/2021-2022

Date: 25.10.2021

TEST REPORT ON CONCRETE CUBES

Client	: **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency	: **Sri.Shivashankar (Shree Chamundeshwari Enterprises),** Contractor, Bangalore.
Name of the work	: Improvements of UGD(Under Ground Drainage) Lines in J P Park in Ward NO.17, BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.10.2021	25.10.2021	8.101	274.5	12.20
2	18.10.2021	25.10.2021	8.133	285.9	12.71
3	18.10.2021	25.10.2021	8.149	291.2	12.94

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/SS/17/2021-2022

Date: 15.11.2021

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.

Agency : **Sri.Shivashankar (Shree Chamundeshwari Enterprises),** Contractor, Bangalore.

Name of the work : Improvements of UGD(Under Ground Drainage) Lines in J P Park in Ward NO.17, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.10.2021	15.11.2021	8.166	372.2	16.54
2	18.10.2021	15.11.2021	8.187	385.6	17.14
3	18.10.2021	15.11.2021	8.199	391.5	17.40

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Job No.: CQCE/BBMP/SS/17/2021-2022

Date: 25.10.2021

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.

Agency : **Sri.Shivashankar (Shree Chamundeshwari Enterprises),** Contractor, Bangalore.

Name of the work : Improvements of UGD(Under Ground Drainage) Lines in J P Park in Ward NO.17, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.10.2021	25.10.2021	8.122	256.6	11.40
2	18.10.2021	25.10.2021	8.139	272.1	12.09
3	18.10.2021	25.10.2021	8.145	285.5	12.69

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Job No.: CQCE/BBMP/SS/17/2021-2022

Date: 15.11.2021

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.

Agency : **Sri.Shivashankar (Shree Chamundeshwari Enterprises),** Contractor, Bangalore.

Name of the work : Improvements of UGD(Under Ground Drainage) Lines in J P Park in Ward NO.17, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.10.2021	15.11.2021	8.166	369.9	16.44
2	18.10.2021	15.11.2021	8.177	374.2	16.63
3	18.10.2021	15.11.2021	8.189	381.6	16.96

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Job No.: CQCE/BBMP/SS/17/2021-2022

Date: 11.10.2021

TEST REPORT OF PHYSICAL REQUIREMENTS OF BRICKS

Client : **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.

Agency : **Sri.Shivashankar (Shree Chamundeshwari Enterprises),** Contractor, Bangalore.

Name of Work : Improvements of UGD(Under Ground Drainage) Lines in J P Park in Ward NO.17, BBMP, Bangalore

Reference to BIS codes : IS 1077 : 1992(RA 2011) Common Burnt Clay Building Bricks-Specification

IS 3495 (Part 1 to 3) : 1992(RA 2011)
Method of Tests Burnt Clay Building Bricks
Part 1:Determination of Compressive Strength, (Cl 4.2.3)
Part 2:Determination of Water Absorption,(Cl 4.1.3)
Part 3: Determination of Efflorescence, (Cl 4)

Date of test 06.10.2021 to 11.10.2021

COMPRESSIVE STRENGTH

Sl.No.	Compressive strength of individual bricks (N/mm2)	Acceptability as per IS 1077:1992, Clause 7.1
1	5.2	The bricks shall have a minimum average compressive strength for various classes as given in Table 1 of IS 1077: 1992. The compressive strength of any individual bricks shall not fall below the minimum compressive strength specified for the corresponding class of brick by more than 15%.
2	5.6	
3	5.8	
4	5.4	
5	5.1	
Average of 5 bricks	5.4	

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WATER ABSORPTION:

Sl.No.	Water Absorption(%)	Acceptability as per IS 1077:1992, Clause 7.2
1	10.5	The water Absorption of bricks shall not be more than 20% by weight upto class 12.5 and 15% by weight for higher classes.
2	11.3	
3	10.6	
4	10.4	
5	10.9	
Average of 5 bricks	10.7	

EFFLORESCENCE:

Sl.No.	Efflorescence	Acceptability as per IS 1077:1992, Clause 7.3
1	Moderate	The efflorescence shall not be more than 'moderate" upto class 12.5 and "slight" for higher classes.
2	Moderate	
3	Moderate	
4	Moderate	
5	Moderate	

DIMENSIONS AND TOLERANCES

Sl.No.	Dimensions obtained for 20 bricks(mm)		Acceptability as per IS 1077:1992, Clause 6.2(b)
1	Length	4625	4520 to 4680 mm
2	Width	2165	2160 to 2240 mm
3	Height	1395	1360 to 1440 mm

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Job No.: CQCE/BBMP/SS/17/2021-2022

Date : 06.10.2021

Test Report Of Glazed Stoneware Pipes

Client	**Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency	**Sri.Shivashankar (Shree Chamundeshwari Enterprises),** Contractor, Bangalore.
Name of the work	Improvements of UGD(Under Ground Drainage) Lines in J P Park in Ward NO.17, BBMP, Bangalore
Type of Sample	**Salt Glazed Stoneware Pipe(300mm dia)**
Techinical Reference	**As Per IS-651:2007 (VI revision)**
Date of Testing	04.10.2021 to 06.10.2021

Sl no	Internal Diameter	% absorption	% of Acid Resistance	Crushing Strength kN/m
1	300mm	4.2	1.68	16.98
2	300mm	5.2	1.98	18.22
3	300mm	5.6	1.85	18.96
Requirements as per IS-651:2007(VI Revision)	-----	**Maximum 6%**	**Not Exceed 2.5%**	**Minimum 16kN/m**

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